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C412 C413 C417 C435 C450 C451
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(56) Documents Cited

GB 2354232 A GB 2182920 A EP 0852221 A
EP 0530826 A WO 98/35756 A WO 86/04527 A
US 5791066 A US 5252116 A US 4892261 A
US 4391411 A US 3255793 A US 3147911 A
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(58) Field of Search

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On-line : WPI, EPODOC, JAPIO

(54) Abstract Title

Methods and apparatus for sewage processing and treatment

(57) An apparatus for processing and treating biosolids such as sewage, whereby drying and elimination of pathogens takes place, comprises a feed assembly with conical section and inlet tube having a discharge area and inlet area for the passage of air and sewage and a rotor for creating reverse vortices in a cyclonic air-stream within the conical section and inlet tube. A formula is utilized which is configured to also create a fundamental standing wave, to assist treatment and processing of sewage, and a centripetal boundary envelope inside the conical section.

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Application No: GB 0107596.9
Claims searched: 1 to 14, 16

Examiner: Graham S. Lynch
Date of search: 9 May 2001

Patents Act 1977 Search Report under Section 17

Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

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Other: On-line : WPI, EPODOC, JAPIO

Documents considered to be relevant:

Category	Identity of document and relevant passage		Relevant to claims
A	GB 2354232 A	YOUDS, JARRETT. Whole document.	
Y	GB 2182920	AQUAPURE. Whole document.	14.
Y	EP 0852221 A	WEINBERGER. See accompanying abstract.	8.
Y	EP 0530826 A	NALVA. See accompanying abstract.	16.
X	WO 98/35756	NEXT CENTURY TECH. Whole document.	X - 1 to 7, 9 to 13. Y - 8, 14, 16.
Y			
X	WO 86/04527	CP COAL MILLS. Whole document, especially pages 17 to 19, Figures.	1 at least.
X	US 5791066	CREWS. Whole document.	1 at least.
Y	US 5252116	MARKHAM. Whole document.	16.
X	US 4892261	ROLLE et al. Whole document.	1 at least.

X Document indicating lack of novelty or inventive step

Y Document indicating lack of inventive step if combined
with one or more other documents of same category.

& Member of the same patent family

A Document indicating technological background and/or state of the art.

P Document published on or after the declared priority date but before the
filing date of this invention.

E Patent document published on or after, but with priority date earlier
than, the filing date of this application.



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Category	Identity of document and relevant passage	Relevant to claims
A	US 4391411 COLBURN. Whole document.	1 at least.
X	US 3255793 CLUTE. Whole document.	
A	US 3147911 CLUTE. Whole document, note rotor design.	
Y	WPI Abstract Accession No. 1984-151259 & SU 001044912. MOGIL. See accompanying abstract.	8.
Y	WPI Abstract Accession No. 1984-151266 & SU 001044920. STARCH. See accompanying abstract.	8.

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art.
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application.